

Iowa Climate Change Advisory Council

Transportation and Land Use
Subcommittee (SC) Meeting #1
November 28, 2007

Iowa Department of Natural Resources
The Center for Climate Strategies

Welcome and Introductions

- State of Iowa
- Iowa Subcommittee (SC) Members
- Members of the Public
- Center for Climate Strategies

Agenda

- Introductions
- Purpose and Goals
- Review of ICCAC and SC Process
- Development of Iowa Emissions Inventory and Forecast
- Development of Iowa Catalog of States Actions
- Review of Next Steps
- Agenda, Date and Time for Next Meetings
- Public Input and Announcements

ICCAC Purpose & Goals

Purpose and Role of the Council

- After considering a full range of policies and strategies and their cost-effectiveness the Council shall:
 - Develop multiple scenarios designed to reduce statewide GHG emissions including one scenario that would reduce such emissions by 50% by 2050.
 - Develop short term, medium term, and long term scenarios designed to reduce statewide GHG emissions.

ICCAC Purpose & Goals (cont'd.)

- Role of the Council (cont'd.)
 - Establish a baseline year for purposes of calculating reductions in statewide GHG emissions.
 - Submit recommendations to the Governor and General Assembly by Dec. 31, 2008.
 - The Council may periodically adopt recommendations designed to encourage the reduction of statewide greenhouse gases.

ICCAC Roles & Responsibilities

- ICCAC Process convened by Governor Culver and the IA DNR
- DNR oversees and coordinates process
- ICCAC makes recommendations to Governor
- **Sub-Committees (SCs) provide informal guidance to ICCAC**
- Public input and review for stakeholders
- CCS provides facilitation, technical support, final report

SC Roles

- Assist ICCAC
 - Identify potential state actions
 - Identify potential priorities for analysis
 - Suggest straw policy designs
 - Assist with analysis and review of options
 - Assist with development of policy alternatives
 - Assist with input to and review of ICCAC reports
 - Review and assist with the state GHG inventory and forecast

SC Composition

- Clean And Renewable Energy (Energy Supply)
 - Heat and power generation; typical locus for cap and trade or carbon tax policy
- Energy Efficiency and Conservation (Residential, Commercial and Industrial)
 - Energy efficiency & conservation, industrial processes
- Transportation and Land-Use
 - Including vehicle efficiency, alternative fuels & demand reduction programs, development patterns
- Agriculture, Forestry and Waste
 - Land protection, forest restoration, sustainable forest management, bioenergy, sustainable wood products, waste management, reduction, recycling
- Cross-Cutting Issues
 - Reporting, registries, public education

Ground Rules

- Supportive of the process
- Attendance at meetings
- Equal footing
- Stay current with information
- No backsliding
- Do not represent the ICCAC or SCs
- Make objective contributions

Timing

Date	Action
October 18, 2007	1 st ICCAC meeting
December 17, 2007	2 nd ICCAC meeting
February 2008	3 rd ICCAC meeting
April 2008	4 th ICCAC meeting
June 2008	5 th ICCAC meeting
September 2008	6 th ICCAC meeting
December 2008	7 th ICCAC Meeting
December 31, 2008	ICCAC Report Due
Between ICCAC Meetings	2 SC conference calls and or meetings for each SC between ICCAC meetings

Stepwise Planning Process

1. Develop inventory and forecast of emissions
2. Identify a full range of possible actions
3. Identify initial priorities for analysis
4. Develop straw proposals
5. Quantify GHG reductions and costs/savings
6. Evaluate externalities, feasibility issues
7. Develop alternatives to address barriers
8. Aggregate results
9. Iterate to final agreements
10. Finalize and report recommendations

Building Consensus

- Comprehensive
- Stepwise
- Fact based
- Transparent
- Inclusive
- Collaborative
- Consensus driven



Coverage Of Issues



- All GHG's
- All sectors
- All potential implementation mechanisms
- State and multi-state actions
- Short and long term actions

Decision Criteria

- GHG Reduction Potential (MMTCO₂e)
- Cost or Cost Saved Per Ton GHG Removed
- Co-benefits
- Feasibility Issues

Catalog of States Actions

- Over 300 actions taken by US states
- Existing, planned and proposed state level actions
- Wide variety of US states
- All sectors
- Wide variety of implementation mechanisms
- Includes key IA actions
- ICCAC will add new potential actions
- Starting place for identification of ICCAC priorities

Screening of Potential Actions

- Agriculture Sample

Option No.	Climate Mitigation Option	Priority for Analysis	Potential GHG Emissions Reduction	Potential Cost or Cost Savings	Additional Impacts, Feasibility Considerations	Notes
AFW-1	AGRICULTURE'S PRODUCTION OF FUELS AND ELECTRICITY					
1.1	Manure Digesters/Other Waste Energy Utilization**					
1.2	Biodiesel Production (incentives for feedstocks and production plants)					
1.3	Biomass Feedstocks for Electricity or Steam Production**					
1.4	Ethanol Production					

Policy Design Proposals

- SCs start with Catalog of states' actions, screen options, and recommend priorities for IA
- ICCAC identifies about 50 draft potential priority options for further development
- SCs develop initial policy option designs (“straw proposals”)
 - Timing
 - Goals
 - Coverage
- CCS quantifies and presents for review
- ICCAC revisits list of potential priorities, as needed

Policy Option Template

- Policy Description (Concept)
- Policy Design (Goals, Timing, Coverage)
- Implementation Methods
- Related Programs and Policies (BAU)
- Estimated GHG Savings and Costs Per MMTCO_{2e}
 - Data Sources, Methods and Assumptions
 - Key Uncertainties
- Additional (non-GHG) Benefits and Costs, as Needed
- Feasibility Issues, if Needed
- Status Of Group Approval
- Level of Group Support
- Barriers to Consensus, if any

Final Report

- Executive Summary
- Background, Purpose And Goals
- IA Emissions Inventory & Forecast
- ICCAC Recommendations & Results
 - Agriculture
 - Forestry
 - Energy Supply
 - Residential, Commercial, Industrial
 - Transportation & Land Use
 - Waste Management
 - Cross Cutting Issues
- Appendices

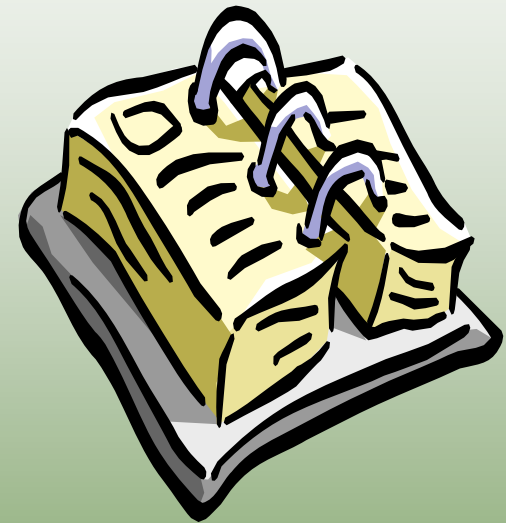


Next Steps

- Add Iowa climate actions to date to the Catalog
- Identify potential actions that are missing from the catalog

Next SC Meetings

- Agenda:
 - Add missing actions to catalog
 - Review Iowa emissions inventory and projections
- Time and Date TBD



Public Input, Announcements